

2. Amendments to the Claims:

A clean version of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR § 1.121(c)(3). This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A three dimensional ultrasound imaging device, comprising:
an interpolator that ~~creates an up-sampled image information~~ interpolates three-dimensional volumes derived from a three-dimensional ultrasound image information using interpolation data to obtain at least one interpolated three-dimensional volume, providing up sampled three-dimensional volumes; and
a memory that stores at least one of the three-dimensional ultrasound image ~~information data~~ and the up sampled ~~image information~~ three-dimensional volumes.
2. (Currently amended) The ultrasound imaging device of claim 1, further comprising:
a probe that sends ultrasound waves, gathers reflected ultrasound waves and creates ultrasound ~~information~~ image data; and
a processor that converts the ultrasound ~~information~~ image data to the three-dimensional ultrasound image information data.
3. (Currently amended) The ultrasound imaging device of claim 1, further comprising:
a display that displays the up sampled ~~image information~~ three-dimensional volumes.
4. (Currently amended) The ultrasound imaging device of claim 1, wherein the interpolation is comprises at least one of 2-image to 3-image interpolation, interpolating 2 image three-dimensional volumes to 4 image interpolation three-dimensional volumes, interpolating 3 image three-dimensional volumes to 4 image interpolation three-dimensional

volumes and interpolating 3 image three-dimensional volumes to 5 image interpolation three-dimensional volumes.

5. (Canceled)

6. (Canceled)

7. (Currently amended) The ultrasound imaging device of claim 1, wherein the interpolation ~~used is~~ comprises at least one of straight line, parabolic, stepped, cubic, FIR (Finite Impulse Response) and IIR (Infinite Impulse Response) interpolation.

8. (Currently amended) A method of processing three-dimensional ultrasound imaging ~~information data~~, comprising:

creating up sampled ultrasound image ~~information~~ three-dimensional volumes from a three-dimensional ultrasound image ~~information data~~ using interpolation; and

storing at least one of the three-dimensional ultrasound image ~~information data~~ and the up sampled ultrasound image ~~information~~ three-dimensional volumes; and

rendering the up sampled ultrasound image three-dimensional volumes into display data.

wherein creating the up sampled ultrasound image three-dimensional volumes comprises interpolating a plurality of three-dimensional volumes derived from the three-dimensional ultrasound image data to obtain at least one interpolated three-dimensional volume.

9. (Currently amended) The method of processing three-dimensional ultrasound imaging ~~information data~~ of claim 8, further comprising:

sending ultrasound waves, gathering reflected ultrasound waves and creating ultrasound ~~information data~~; and

converting the ultrasound ~~information data~~ to the three-dimensional ultrasound image information data.

10. (Currently amended) The method of processing three-dimensional ultrasound imaging ~~information data~~ of claim 8, further comprising:

displaying the ~~up-sampled image information~~ rendered display data.

11. (Currently amended) The method of processing three-dimensional ultrasound imaging ~~information data~~ of claim 8, wherein ~~the interpolation is~~ interpolating the plurality of three-dimensional volumes comprises at least one of 2 image interpolation to 3 image interpolation, interpolating 2 image three-dimensional volumes to 4 image interpolation three-dimensional volumes, interpolating 3 image three-dimensional volumes to 4 image interpolation three-dimensional volumes and interpolating 3 image three-dimensional volumes to 5 image interpolation three-dimensional volumes.

12. (Canceled)

13. (Canceled)

14. (Currently amended) The method of processing three-dimensional ultrasound imaging ~~information data~~ of claim 8, wherein ~~the interpolation used is~~ interpolating the plurality of three-dimensional volumes comprises at least one of straight line, parabolic, stepped, cubic, FIR (Finite Impulse Response) and IIR (Infinite Impulse Response) interpolation.

15. (Currently amended) A system for three-dimensional ultrasound imaging, comprising:

an interpolator that ~~creates an up-sampled image information~~ interpolates three-dimensional objects derived from a three-dimensional coordinates of ultrasound image

information using interpolation data to obtain at least one interpolated three-dimensional object, providing up sampled three-dimensional objects; and

a memory that stores at least one of the three-dimensional ultrasound image information data and the up sampled ~~image information~~ three-dimensional objects.

16. (Currently amended) The system for three-dimensional ultrasound imaging of claim 15, further comprising:

a probe that sends ultrasound waves, gathers reflected ultrasound waves and creates ~~three-dimensional the~~ ultrasound information image data; and

a processor that converts the ultrasound ~~information image data to the three-dimensional ultrasound image information~~ coordinates.

17. (Currently amended) The system for three-dimensional ultrasound imaging of claim 15, further comprising:

a render engine that renders display data from the up sampled three-dimensional objects; and

a display device that displays the ~~up-sampled image information~~ rendered display data.

18. (Currently amended) The system for three-dimensional ultrasound imaging of claim 15, wherein the interpolation is comprises at least one of ~~2 image to 3 image interpolation, interpolating 2 image three-dimensional objects to 4 image three-dimensional objects interpolation, interpolating 3 image three-dimensional objects to 4 image three-dimensional objects interpolation and interpolating 3 image three-dimensional objects to 5 image three-dimensional objects interpolation.~~

19. (Canceled)

20. (Currently amended) The system for three-dimensional ultrasound imaging of claim 15, wherein the interpolation ~~used is~~ comprises at least one of straight line, parabolic,

stepped, cubic, FIR (Finite Impulse Response) and IIR (Infinite Impulse Response)
interpolation.

21. (New) The ultrasound imaging device of claim 1, wherein the interpolation comprises interpolating 2 three-dimensional volumes to 3 three-dimensional volumes.

22. (New) The method of processing three-dimensional ultrasound imaging data of claim 8, wherein interpolating the plurality of three-dimensional volumes comprises interpolating 2 three-dimensional volumes to 3 three-dimensional volumes.

23. (New) The system for three-dimensional ultrasound imaging of claim 15, wherein the interpolation comprises interpolating 2 three-dimensional objects to 3 three-dimensional objects.